A Big Earth Data Platform for Three Poles

**Dataset of PM2.5 aerosol particle concentration at different locations on Tibetan Plateau (2019）**

1、Description

This data set includes PM2.5 mass concentrations (unit: μ g / m3) of atmospheric aerosol particles from South-East Tibetan plateau Station, Ngari Station, Muztagh Ata Station, Qomolangma station and Namco station. Aerosol PM2.5 fine particles refer to the particles with aerodynamic equivalent diameter less than or equal to 2.5 μ m in ambient air. It can be suspended in the air for a long time, which has an important impact on air quality and visibility. The higher its concentration in the air, the more serious the air pollution. The concentration characteristic data of PM2.5 were calculated every 5 The analysis of aerosol mass concentration in different time scales, such as hour, day and night, season and inter annual, can be achieved by obtaining a group of data frequency for output. This provides important data support for the analysis of aerosol mass concentration changes in different time scales and its influencing factors in different locations of the Qinghai Tibet Plateau, as well as the evaluation of local air quality. The data is an update of the published data set of aerosol PM2.5 concentration at different stations on the Qinghai Tibet Plateau (2018).

2、Keywords

Theme：Aerosol,Particulate matter
Discipline：Atmosphere
Places：Tibetan Plateau, HORN
Time：2019

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.04MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：33.0 | - |
| west：79.0 | - | east：94.0 |
| - | south：28.0 | - |

5、Time frame:2019-01-07 08:00:00+00:00--2020-01-06 08:00:00+00:00

6、Reference method

References to data:

WU Guangjian. Dataset of PM2.5 aerosol particle concentration at different locations on Tibetan Plateau (2019）. A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2708662020

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: WU Guangjian
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences
email: wugj@itpcas.ac.cn